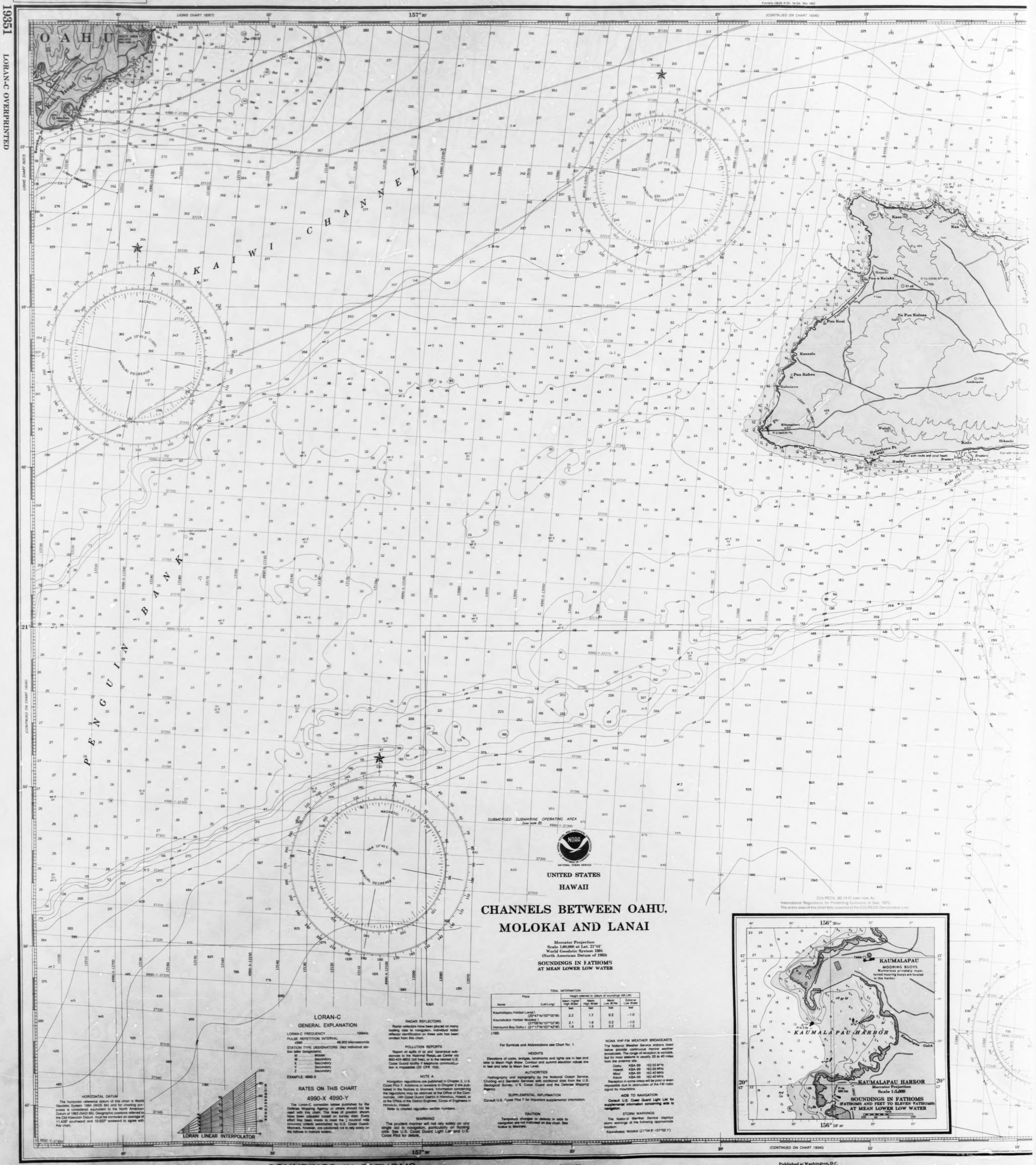
NOAA nautical charts are constructed to exacting standards and are designed to promote safe navigation. Since our waterways are subject to continual change, the National Ocean Service encourages chart users to submit corrections or comments for the improvement of this product to the Director, Charting and Geodetic Services (N/CG22), National Ocean Service, NOAA, Rockville, Maryland 20852. By working together, we can make our activities safer and more enjoyable.

Thomas J. Magnnini
Assistant Administrator for Ocean Services
and Coastal Zone Management

19351 LORAN-C OVERPRINTED

Formerly C&GS 4120, 1st Ed., Mar 1942


OAHU
Kaula Island
KAIWI CHANNEL
PENGUIN BANK
MAGNETIC
VAR 10° 45'E (1985)
ANNUAL DECREASE 6'
LORAN LINEAR INTERPOLATOR
SUBMERGED SUBMARINE OPERATING AREA
(see note B)
NOAA
NATIONAL OCEAN SERVICE
UNITED STATES
HAWAII
CHANNELS BETWEEN OAHU, MOLOKAI AND LANAI
Mercator Projection
Scale 1:80,000 at Lat. 21°01'
World Geodetic System 1984
(North American Datum of 1983)
SOUNDINGS IN FATHOMS
AT MEAN LOWER LOW WATER
LORAN-C
GENERAL EXPLANATION
LORAN-C FREQUENCY 100kHz
PULSE REPETITION INTERVAL
49,900 Microseconds
STATION TYPE DESIGNATORS: (Not individual station letter designators)
M ..... Master
V ..... Secondary
W ..... Secondary
X ..... Secondary
Y ..... Secondary
Z ..... Secondary
EXAMPLE: 4990-X
RATES ON THIS CHART
4990-X 4990-Y
The Loran-C correction tables published by the Defense Mapping Agency or others should not be used with this chart. Use the exact position shown or been computed from an earlier date. Every effort has been made to insert the 1 nautical mile accuracy contents established by U.S. Coast Guard Mariners, however, are cautioned not to rely solely on the lattices in harbors waters.
RADAR REFLECTORS
Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.
POLLUTION REPORTS
Report oil spills of oil and hazardous substances to the National Response Center via 800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).
NOTE A
Navigation regulations are published in Chapter 2, U.S. Coast Pilot 7. Additions or revisions to Chapter 2 are published in the Notices to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 14th Coast Guard District in Honolulu, Hawaii, or at the Office of the District Engineer, Corps of Engineers in Honolulu, Hawaii.
Refer to charted regulation section numbers.
WARNING
The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.
TIDAL INFORMATION
Name | Position (Lat/Long) | Height referred to Datum of soundings (MLLW): Mean Higher High Water (feet) | Mean High Water (feet) | Mean Low Water (feet) | Extreme Low Water (feet)
Kaumalapau Harbor Lanai (20°47'N/157°00'W) | 2.2 | 1.7 | 0.2 | –1.0
Kaunakakai Harbor Molokai (21°06'N/157°02'W) | 2.1 | 1.6 | 0.2 | –1.0
Honouma Bay Oahu I. (21°17'N/157°42'W) | 1.9 | 1.5 | 0.2 | –1.0
(168)
For Symbols and Abbreviations see Chart No. 1
HEIGHTS
Elevations of rocks, bridges, landmarks and lights are in feet and refer to Mean High Water. Contour and summit elevation values are in feet and refer to Mean Sea Level.
AUTHORITIES
Hydrography and topography by the National Ocean Service, Charting and Geodetic Services with additional data from the U.S. Geological Survey, U.S. Coast Guard and the Defense Mapping Agency.
SUPPLEMENTAL INFORMATION
Consult U.S. Coast Pilot 7 for important supplemental information.
CAUTION
Temporary changes or defects in aids to navigation are not indicated on this chart. See Notice to Mariners.
NOAA VHF-FM WEATHER BROADCASTS
The National Weather Service stations listed below provide continuous marine weather broadcasts. The range of reception is variable, but for most stations is usually 20 to 40 miles from the antenna site.
Oahu KBA-99 162.55 MHz
Hawaii KBA-99 162.55 MHz
Maui KBA-99 162.40 MHz
Kauai KBA-99 162.40 MHz
Reception in some areas will be poor or even impossible due to obstruction of the FM radio signal by mountains.
AIDS TO NAVIGATION
Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.
STORM WARNINGS
The National Weather Service displays storm warnings at the following approximate location:
Kaunakakai, Molokai (21°04.8'–157°02.1')
COLREGS: 80.1410 (see note A)
International Regulations for Preventing Collisions at Sea, 1972.
The entire area of this chart falls seaward of the COLREGS Demarcation Line.
KAUMALAPAU
MOORING BUOYS
Numerous privately maintained mooring buoys are located in the harbor.
KAUMALAPAU HARBOR
Mercator Projection
Scale 1:5,000
SOUNDINGS IN FATHOMS
(FATHOMS AND FEET TO ELEVEN FATHOMS)
AT MEAN LOWER LOW WATER
(CONTINUED ON CHART 19340)
(CONTINUED ON CHART 19340)

8th Ed., July 1/89 ■
19351
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CAUTION
This chart has been corrected from the Notice to Mariners published weekly by the Defense Mapping Agency Hydrographic/Topographic Center and the Local Notice to Mariners issued periodically by each U.S. Coast Guard district to the date shown in the lower left hand corner.

SOUNDINGS IN FATHOMS

Nautical Miles
Yards

Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE

C55.418/7:19351

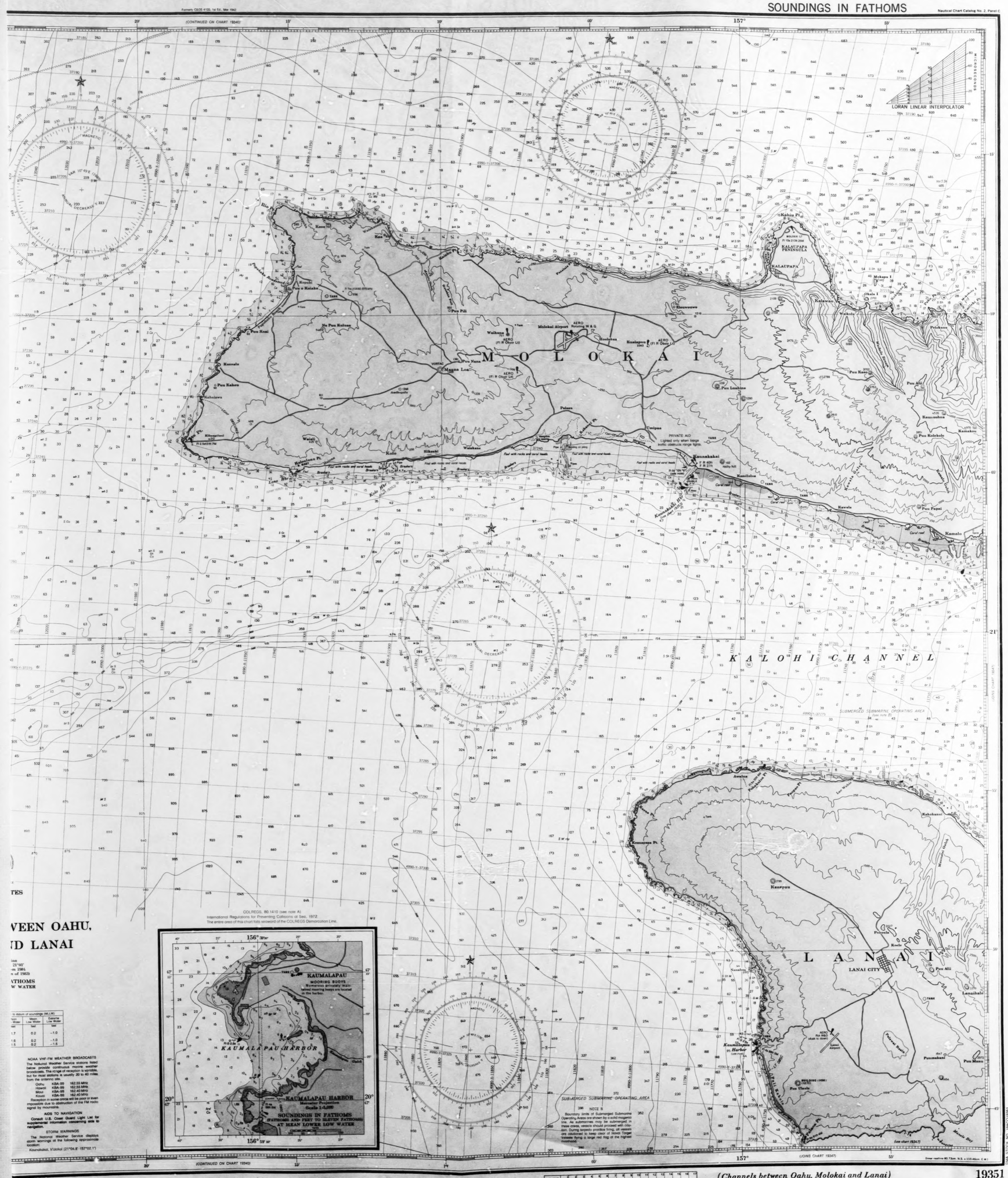
best copy available

Formerly C&GS 4130, 1st Ed., Mar 1942

SOUNDINGS IN FATHOMS

Nautical Chart Catalog No. 2, Panel C

(CONTINUED ON CHART 19340)


LORAN LINEAR INTERPOLATOR
MOLOKAI
KALOHI CHANNEL
LANAI
KALAUPAPA PENINSULA
KALAUPAPA
Kaunakakai
Kaunakakai Harbor
Molokai Airport
LANAI CITY
Manele Bay
Kaumalapau
Kaumalapau Harbor
Kaumalapau Harbor
Mooring Buoys
Numerous privately maintained mooring buoys are located in the harbor.
Kaumalapau Harbor
Soundings in Fathoms
(Fathoms and feet to eleven fathoms)
at Mean Lower Low Water
Scale 1:4,000
PRIVATE AID
Lighted only when barge traffic obstructs range lights.
SUBMERGED SUBMARINE OPERATING AREA
NOTE B
Boundary limits of Submerged Submarine Operating Areas are shown by a solid magenta line. As submarines may be submerged in these areas, vessels should proceed with caution. During torpedo practice firing, all vessels are cautioned to keep clear of towed Target transets flying a large red flag at the highest masthead.
COLREGS, 80.1410 (see note A)
International Regulations for Preventing Collisions at Sea, 1972.
The entire area of this chart falls seaward of the COLREGS Demarcation Line.
(CONTINUED ON CHART 19340)
(JOINS CHART 19347)
(see chart 19347)
Kaiwi Pt.
Kalae
Kaena Pt.
Kahiwa Pt.
Kaunuohua Pt.
Kaholo Pt.
Kaluakoi
Kaluakoi Airport
Kamiloloa
Kaupoa
Kaunakakai Wharf
Kaunakakai Harbor
Kamalo
Kaiehu Pt.
Kalaupapa
Kalawao
Waikolu
Mokapu I.
Okala I.
Kaluaiki
Kaluaiki Pt.
Kaluaiki Airport
Kaluaiki Harbor
Kaluaiki Harbor
Kaluaiki Harbor